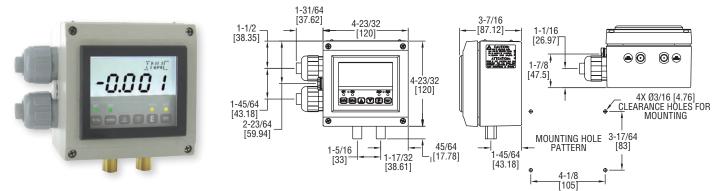
Dwyer. **DIGIHELIC® II DIFFERENTIAL PRESSURE CONTROLLER** NEMA 4 (IP66) Housing With Large, Bright LCD, Square Root Output for Flow

PRESSURE



The SERIES DHII takes all the fabulous features of the standard Digihelic® Pressure Controller and packages them in a robust NEMA 4 (IP66) housing.

The Digihelic® II Pressure Controller combines the 2 SPDT control relays, 4 to 20 mA process output and Modbus® communications with a large, brightly backlit 4 digit LCD display that can easily be seen from long distances. The electrical wiring has also been enhanced in the DHII with its detachable terminal blocks. The removable terminals allow the install to easily wire the terminal block outside the housing and then attach to the circuit board, reducing wiring difficulties and installation time on the process.

The Digihelic® II Differential Pressure Control in the new NEMA 4 (IP66) enclosure enables this product to be the perfect choice when mounting pressure controls outdoors in such applications as rooftop air handlers. This housing also makes it the ideal solution for surface mounting in clean rooms or facilities where water or a cleaning solution is utilized in maintaining plant cleanliness.

FEATURES/BENEFITS

- · NEMA 4 housing enables a range of uses both outdoors or indoors where water is present
- · Large backlight LCD display provides local reading from a distance
- · Detachable terminal blocks reduce wiring difficulties saving installation time

APPLICATIONS

· Air handlers Clean rooms

Differential Pressure Gages/Switches, Digital

ACCESSORIES	
Model	Description
MN-1	Mini-Node™ USB/RS-485 converter
A-301	Static pressure tip for 1/4" metal tubing connection
A-302	Static pressure tip for 3/16" and 1/8" I.D. plastic or rubber
	tubing
A-438	Surface mounting brackets
A-489	4" straight static pressure tip with flange
A-302F-A	303 SS static pressure tip with mounting flange; for 3/16" ID
	rubber or plastic tubing; 4" insertion depth; includes mounting
	screws
Digihelic Links™	Communications software

MODEL CHART - Available Pressure Engineering Units Model in w.c. ft w.c. mm w.c. cm w.c. psi in Hg mm Hg mbar Pa kPa hPa oz/in² DHII-002 6.350 0.635 0.467 0.623 62.28 .2500 0.623 0.144 DHII-004 1.868 2.491 249.1 0.249 2.491 0.578 1.000 25.40 2.540 DHII-006 5.000 4167 127.0 12.70 1806 .3678 9.342 12.45 1245 1.245 12.45 2.890 DHII-007 10.00 .8333 254.0 25.40 .3613 .7356 18.68 24.91 2491 2.491 24.91 5.780 DHII-008 25.00 2.083 635.0 63.50 9032 1.839 46.71 62.27 6227 6.227 62.27 14.45 DHII-009 50.00 4.167 1270 127.0 1.806 3.678 93.42 124.5 12.45 124.5 28.90 DHII-010* 100.0 8.333 2540 254.0 3.613 7.356 186.8 249.1 24.91 249.1 57.80 *Velocity and volumetric flow not available on bi-directional range units and models DHII-009 & DHII-010.

Contact: Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@instrumentation2000.com http://www.instrumentation2000.com

SPECIFICATIONS

Service: Air and non-combustible, compatible gases

Wetted Materials: Consult factory.

Housing Material: Aluminum, glass.

Accuracy: ±0.5% at 77°F (25°C) including hysteresis and repeatability (after 1 hour warm-up).

Stability: < ±1% per vear.

Pressure Limits: Ranges ≤ 2.5 in w.c. = 2 psi; 5": 5 psi; 10": 5 psi; 25": 5 psi; 50": 5 psi, 100": 9 psi.

Temperature Limits: 32 to 140°F (0 to 60°C).

Compensated Temperature Limits: 32 to 140°F (0 to 60°C).

Thermal Effects: 0.020%/°F (0.036/°C) from 77°F (25°C).

Power Requirements: High voltage power = 100 to 240 VAC, 50 to 400 Hz or 132 to 240 VDC; Low voltage power = 24 VDC ±20%. Power Consumption: Low voltage power = 24 VDC - 130 mA max; High voltage power = 100 to 240 VAC, 132 to 240 VDC - 7 VA max. Output Signal: 4 to 20 mA DC into 900 Ω max.

Zero & Span Adjustments: Accessible via menus.

Response Time: 250 ms (dampening set to 1).

Display: 4 digit backlit LCD 0.6" height. LED indicators for set point and alarm status.

Electrical Connections: Euro type removable terminal blocks with watertight conduit fittings for 1/2" watertight conduit.

Process Connections: 1/8" female NPT.

Enclosure Rating: Designed to meet NEMA 4 (IP66).

Mounting Orientation: Mount unit in horizontal plane.

Weight: 2 lb 10 oz (1.19 kg).

Serial Communications: Modbus® RTU, RS485, 9600 baud. Agency Approvals: CE, UL.

SWITCH SPECIFICATIONS

Switch Type: 2 SPDT relays. Electrical Rating: 8 amps at 240 VAC resistive. Set Point Adjustment: Adjustable via keypad on face.

MODEL CHART - Bi-Directional* Ranges Model Range DHII-012 0.25 to 0 - 0.25 in w.c. DHII-014 1.0 to 0 - 1.0 in w.c. DHII-015 2.5 to 0 - 2.5 in w.c. DHII-016 5 to 0 - 5 in w.c. DHII-017 10 to 0 - 10 in w.c. Velocity and volumetric flow not available on bi-directional range units and models DHII-009 & DHII-010.